: 1, f, f, f, fn

2) 
$$f(n,j,z) = \sin^{-1}(nyz) \rightarrow f_n = jz$$

$$\int_{-1}^{\infty} \frac{1}{(njz)^n} \int_{-1}^{\infty} \frac{nz}{(njz)^n} \int_{-1}^{\infty} \frac{ny}{(nyz)^n}$$

6) 
$$f(n,j,z) = yz \ln(ny) \rightarrow f_n = \frac{z}{ny} = \frac{z}{n}$$
,  $f_{zz} = \frac{1}{ny}(nyz) + z \ln ny$ 

$$\frac{z}{n} f_{zz} = \frac{1}{n}(ny)$$

2) 
$$\omega_2$$
 using +  $\gamma$  sinu +  $\gamma$  -  $\omega_{1}$  =  $\omega_{1}$  (sing +  $\gamma$  +  $\omega_{2}$ ) =  $\omega_{1}$  =  $\omega_{1}$  =  $\omega_{2}$  (sing +  $\gamma$  +  $\omega_{3}$ ) =  $\omega_{1}$  =  $\omega_{1}$  =  $\omega_{2}$  (sing +  $\gamma$  +  $\omega_{3}$ ) =  $\omega_{2}$  =  $\omega_{3}$  =  $\omega$ 

2) 
$$f(n_{2}) = \begin{cases} \sin(n+1) \\ \sin(n+1) \end{cases}$$
  $(n_{2}) + (0,0) \\ \sin(n+1) \end{cases}$   $(n_{2}) + (0,0) \\ \cos(n+1) \end{cases}$   $(n_{2}) + (0,0) \\ \cos(n+1) \end{cases}$   $(n_{2}) + (n_{2}) \end{cases}$ 

$$\frac{2}{2} \int_{(n,y)}^{n+1} \frac{1}{2} \frac{1}$$

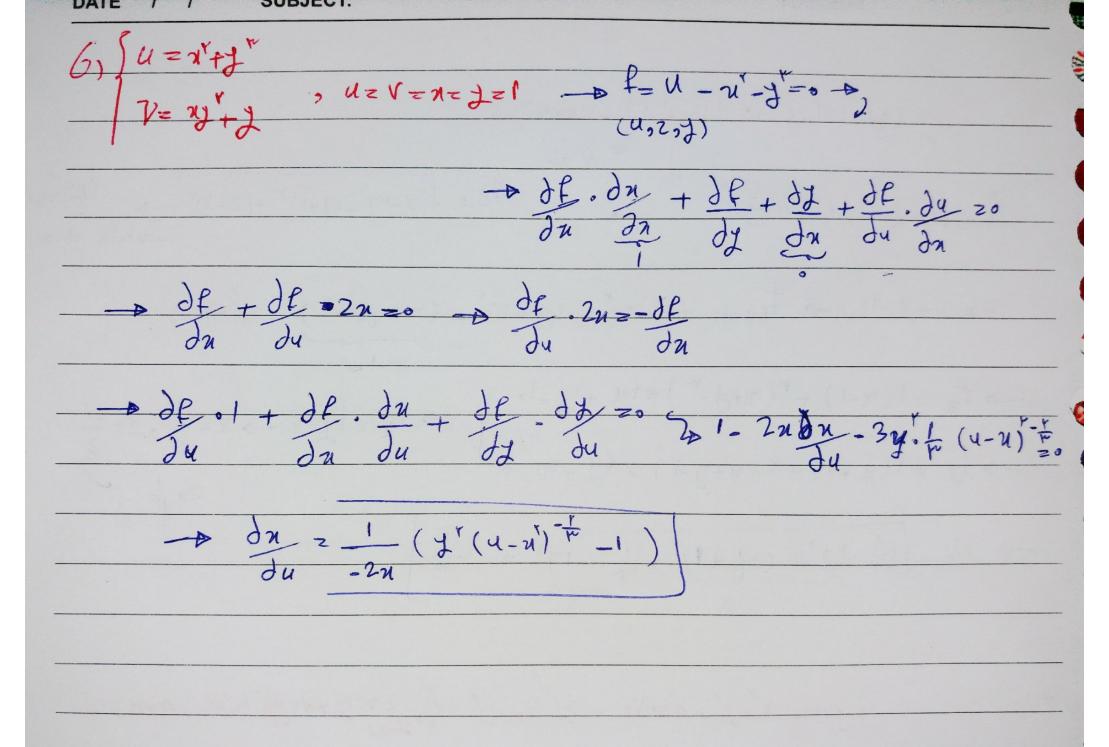
$$\frac{\partial z}{\partial u} = \frac{\partial z}{\partial u} \cdot \frac{\partial u}{\partial u} + \frac{\partial z}{\partial z} \cdot \frac{\partial u}{\partial u} = \frac{1}{u^r + y^r} \cdot \frac{1}{v} + \frac{1}{u^r + y^r} \cdot \frac{1}{v} = \frac{1}{1} \cdot \frac{1}{u^r + y^r}$$

$$\frac{\partial z}{\partial u} = \frac{\partial z}{\partial u} \cdot \frac{\partial u}{\partial u} + \frac{\partial z}{\partial z} \cdot \frac{\partial u}{\partial u} = \frac{1}{u^r + y^r} \cdot \frac{1}{v} + \frac{1}{u^r + y^r} \cdot \frac{1}{v} = \frac{1}{1} \cdot \frac{1}{u^r + y^r}$$

$$\frac{\partial z}{\partial u} = \frac{\partial z}{\partial u} \cdot \frac{\partial u}{\partial u} + \frac{\partial z}{\partial z} \cdot \frac{\partial u}{\partial u} = \frac{1}{u^r + y^r} \cdot \frac{1}{v} + \frac{1}{u^r + y^r} \cdot \frac{1}{v} = \frac{1}{1} \cdot \frac{1}{u^r + y^r} \cdot \frac{1}$$

$$\frac{\partial z}{\partial v} = \frac{\partial z}{\partial u} + \frac{\partial z}{\partial z} \cdot \frac{\partial z}{\partial v} = \frac{z}{2} \cdot \frac{\partial z}{\partial v} \cdot \frac{\partial$$

4) 
$$\frac{1}{2} \int v_{+} v_{-} t_{\alpha n'}(u)$$
  $\frac{1}{2} = \ln 2$  ,  $\frac{1}{2} = -v_{-} t_{\alpha n'}(u)$   $\frac{1}{2} = \frac{1}{2} \cdot \frac{1}{2$ 



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	سيس مام را در جدت ١٩ در
2, h(x,y,2) = Cosuz +e + ln zu, p(1,,,	(+), 42 i+1/2+1/k
) hu=-18iny + 2 = 1 - 18iny, hy=	te - using
$\frac{\partial h_{u}=-\frac{1}{2}\sin uy}{\partial h_{z}=\frac{1}{2}e^{\frac{1}{2}z}} = \frac{1}{u}-\frac{1}{2}\sin z}, h_{y}=\frac{1}{2}e^{\frac{1}{2}z}+\frac{1}{2}e^{\frac{1}{2}z}+\frac{1}{2}e^{\frac{1}{2}z}$	Dyhz (1/m-dsinny, ze 2/msinny
- Dunz (n- Joinny + 2 ze - Ynsin	ny + ye + 1 ] .   Le + 1
P. ) = (Ouh) (p.) = [1-0+1-0-	- + 4] = 6/3 = 2] colsil = 3
1 get Guino om ( risty ono 6, of the original )	6 44 60 1) 2 mby ce cos 10 (6 0) 5)
f a	ورانی دیت عرب اورد
Poz (441)	= -u - z , fz=-1
Poz (4,1)	
( 1 VA Copyeco) 10 0000 * NI	= (1,-0,-1) - (Duf) (P) = UY
	(MI)

Sahand

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وادر زر را درست ا درسه : 2) This x+1-221 (5,00) (10,-1,1) Lei dolorité

2) This x+1-221 (5,00) (10,-1,1) Lei dolorité

2) AB2 (10-1) + (1+1) + (2-1) - Omi(s)

AB2 (10-1) + (1+1) + (2-1) Zz 2+y-1 - f(n,y) z (2-r) + (y+1) + (2+y-r) + 22min no -> AB 2 (A-+)+ (-++)++(1/2-1)+ 2 +5F 4) . who n'ty'+2'z to of asial f z n-ry +az 4/5 min, mon dun 20 fran=1, fy=-1, fzzo, Ixzru, gy=1, g=1z 3 vf=27√g→[1,+,0]=27(rn, ry, rz] → 212/2 +2=1,22 € \$ d(1,1,2) =0 - 1 + 1 + 10 = 10 = 12 + 1/2 λ 2 = 1 : ( u, y, 2) = (-1, γ, 0) - + ( 1, -1, 0) = 30 - > mon λ2 = 1 : ( u, y, 2) = (-1, γ, -0) - + ( -1, γ, -0) = -30 - > min

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De 21 + 2 2 3 - 2	عديم إلا السرماع كالم عديد السرماع كالم علي المراه على المراه على عدم مدا
	z, , z, z n' + j'+ z'- + zo, , \f z[], u, YZ]
-> V31 = [-1.	,i], Vg,=[ru,+z,+z] -> Vf=2 Vg, + b Vg,
→ J2 - 2+	-Ynll, uz7+Yzll, Yzz Yzll -> 220 f llz1
	→ **+*** = * * * * * * * * * * * * * * *
N / 121 -	→ dz -2+1/2 , nz 7+1/2 → (n+y) = *(n+y) → nzo, y
-> Z'-	(20 -DZZ tr -> 6h:(0,0, tr)
-> f(+	St, tSt,.) = 2 -> min, f(0,0, tr) = 1 -> man
	indering (0,0) Coting to we Talon coint Pay-

 $\int_{\mathcal{A}} \int_{\mathcal{A}} \int$ 

in non end end est des fulles

2) 
$$f_{(n,1)} = f_{(n,1)} = f$$